

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference P64626WO00	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/GB2005/000106	International filing date (day/month/year) 14/01/2005	(Earliest) Priority Date (day/month/year) 16/01/2004
Applicant SOLEXA LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. Certain claims were found unsearchable (See Box II).

3. Unity of invention is lacking (see Box III).

4. With regard to the title,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

MULTIPLE INEXACT PATTERN MATCHING

5. With regard to the abstract,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

a. the figure of the drawings to be published with the abstract is Figure No. 9

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b. none of the figures is to be published with the abstract.

A. CLASSIFICATION OF SUBJECT MATTER
G06F19/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, INSPEC, BIOSIS, EMBASE, WPI Data

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 577 249 A (CALIFANO ET AL) 19 November 1996 (1996-11-19) abstract column 2, line 62 - column 4, line 63 column 5, line 30 - column 6, line 59 column 8, line 29 - column 14, line 8 claim 1 figures 1-5 ----- -/-/	1-24

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"&" document member of the same patent family

Date of the actual completion of the international search

Date of mailing of the international search report

21 December 2005

02/01/2006

Name and mailing address of the ISA

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Hilbig, M

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	MUTH R ET AL: "Approximate multiple string search" COMBINATORIAL PATTERN MATCHING. 7TH ANNUAL SYMPOSIUM, CPM 96. PROCEEDINGS SPRINGER-VERLAG BERLIN, GERMANY, 1996, pages 75-86, XP002359701 ISBN: 3-540-61258-0 cited in the application abstract page 75, last paragraph - page 77, paragraph 2 -----	1-24
A	WO 01/48637 A (INCYTE GENOMICS, INC; STANFORD UNIVERSITY) 5 July 2001 (2001-07-05) abstract page 2, line 13 - page 4, line 2 figures 3-5 .. -----	1-24
A	JIONG YANG ET AL: "Accelerating approximate subsequence search on large protein sequence databases" PROCEEDINGS IEEE COMPUTER SOCIETY BIOINFORMATICS CONFERENCE IEEE COMPUT. SOC LOS ALAMITOS, CA, USA, 2002, pages 1-10, XP002359702 ISBN: 0-7695-1653-X abstract page 3, left-hand column, paragraph 1 - page 6, right-hand column, paragraph 2 figures 1,2 -----	1-24
A	BENG CHIN OOI ET AL: "Fast filter-and-refine algorithms for subsequence selection" PROCEEDINGS INTERNATIONAL DATABASE ENGINEERING AND APPLICATIONS SYMPOSIUM IEEE COMPUT. SOC PISCATAWAY, NJ, USA, 2002, pages 243-254, XP002359703 ISBN: 1098-8068 abstract page 244, right-hand column, paragraph 4 - page 249, left-hand column, last paragraph figure 1 -----	1-24

Information on patent family members

International Application No.

PCT/GB2005/000106

Patent document cited in search report	Publication date		Patent family member(s)		Publication date
US 5577249	A	19-11-1996	AT 260486 T DE 69333422 D1 DE 69333422 T2 EP 0583559 A1 JP 2673091 B2 JP 6098770 A		15-03-2004 01-04-2004 16-12-2004 23-02-1994 05-11-1997 12-04-1994
WO 0148637	A	05-07-2001	AU 2582701 A CA 2395327 A1 EP 1250664 A1 US 6633817 B1		09-07-2001 05-07-2001 23-10-2002 14-10-2003



Application No: GB 0400974.2
Claims searched: 1,19

Examiner: Phil Osman
Date of search: 24 March 2004

Patents Act 1977 : Search Report under Section 17

Documents considered to be relevant:

Category	Relevant to claims	Identity of document and passage or figure of particular relevance	
A	-	WO 03/056462 A1	(CELESTAR LEXICO SCIENCES) See abstract
A	-	US 6,304,868 B1	(VINGRON et al) See abstract

Categories:

X Document indicating lack of novelty or inventive step	A Document indicating technological background and/or state of the art.
Y Document indicating lack of inventive step if combined with one or more other documents of same category.	P Document published on or after the declared priority date but before the filing date of this invention.
& Member of the same patent family	E Patent document published on or after, but with priority date earlier than, the filing date of this application.

Field of Search:

Search of GB, EP, WO & US patent documents classified in the following areas of the UKC^W:

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Worldwide search of patent documents classified in the following areas of the IPC^T:

G06F, G06K

The following online and other databases have been used in the preparation of this search report:

EPODOC, JAPIO, WPI